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ABSTRACT OF THE DISCLOSURE

A stator assembly is formed by sandwiching a circular stator core made of soft magnetic plates from the both sides with a first magnetic-pole assembly having a part mounting section and a second magnetic-pole assembly. The stator core, the first magnetic-pole assembly, and the second magnetic-pole assembly are surrounded by a synthetic resin in a manner such that a surface at which a magnetic-pole tooth of the stator core face a rotor is exposed. The part mounting section has a plurality of holes in each of which a pin (not shown) penetrates, and holes also penetrating in the stator core at positions corresponding to the outside of the circumference of the first magnetic-pole assembly. The first magnetic-pole assembly and the part mounting section, and the second magnetic-pole assembly are fitted with the synthetic resin surrounding through the plurality of through holes provided for the stator core.